

Title (en)

Transmitter-receiver to be coupled to a directional transmission line of a spread-spectrum multiplex communication network.

Title (de)

Mit einer Ein-Richtungsübertragungsleitung verbundener Sender-Empfänger in einem Spread-Spectrum-Multiplexnetzwerk.

Title (fr)

Emetteur-récepteur couplé à une ligne de transmission directionnelle d'un réseau de communication multiplex à spectre étalé.

Publication

EP 0041253 A1 19811209 (EN)

Application

EP 81104133 A 19810529

Priority

- JP 1488481 A 19810203
- JP 1488581 A 19810203
- JP 7235280 A 19800530
- JP 7446880 A 19800603
- JP 7446980 A 19800603
- JP 7447080 A 19800603
- JP 16434480 A 19801121

Abstract (en)

[origin: US4392220A] In an SS (spread spectrum) modem, a high-pass filter (81) for rejecting a low frequency component including an information signal received by demodulation, produces an SS signal component modified by a PN (pseudo noise) code sequence used for the demodulation. A multiplier (82) substantially regenerates the SS signal component. Band division may be resorted to, in which case an input filter (161) selects a partial band SS signal for the demodulation. A transit filter (164) rejects the partial band SS signal. An SS signal is sent to a destination modem through one of output filters (162) selected for the destination modem. Each generator (67, 71) may generate a PN code sequence given by a product of PN codes, one having a frame period equal to an integral multiple (unity allowed) of the PN clock period of another. Each partial band may be about 1/5 of the entire frequency band of the PN code sequence. A center portion of the band may be used in transmitting a narrow-band synchronizing signal. In a band division network, the highest partial band may be used for an SS (multiplex) signal and other partial bands, collectively for a baseband TDM signal.

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- FR 51876 E 19430524 - FIDES GMBH
- FR 2177999 A1 19731109 - BYGG OCH TRANSPORTEKONOMIE AB [SE]
- DE 701608 C 19410120 - SIEMENS AG

Cited by

EP0476126A4; GB2198017A; GB2198017B; WO9313611A1; WO8505745A1

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EP 0041253 A1 19811209; **EP 0041253 B1 19850828**; AU 537148 B2 19840607; AU 7115681 A 19811203; CA 1165476 A 19840410; DE 3172013 D1 19851003; US 4392220 A 19830705

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